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## Effect of SUSY-QCD corrections on the dark matter relic density

A powerful method to constrain the parameter space of theories beyond the Standard Model is to compare the predicted dark matter relic density with data from cosmological precision measurements like WMAP. In many models one of the main uncertainties on the relic density calculation arises from the (co-)annihilation cross sections of the dark matter particle. I will motivate why it is important to take SUSY-QCD corrections at next-to-leading order into account when calculating the neutralino relic density and give a status report of the package DM@NLO. This package will allow to include these corrections to the public codes MicrOMEGAs and DarkSUSY.

Primary author: Ms HARZ, Julia (DESY Hamburg)

Presenter: Ms HARZ, Julia (DESY Hamburg)